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1 [Predicting document access in large multimedia repositories](#)



Margaret M. Recker, James E. Pitkow

December 1996 ACM Transactions on Computer-Human Interaction (TOCHI), Volume 3 Issue 4

Publisher: ACM

 Full text available: [pdf\(1.40 MB\)](#)

 Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [index term review](#)

Bibliometrics: Downloads (6 Weeks): 5, Downloads (12 Months): 39, Citation Count: 2

Network-accessible multimedia databases, repositories, and libraries are proliferating at a rapid A crucial problem for these repositories remains timely and appropriate document access. In this article, we borrow a model from psychological research ...

 Keywords: [information access](#), [user modeling](#)

2 [Dynamic loop pipelining in data-driven architectures](#)



João M. P. Cardoso

May 2005 CF '05: Proceedings of the 2nd conference on Computing frontiers

Publisher: ACM

 Full text available: [pdf\(325.71 KB\)](#)

 Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 5, Downloads (12 Months): 72, Citation Count: 0

Data-driven array architectures seem to be important alternatives for coarse-grained reconfigur computing platforms. Their use has provided performance improvements over microprocessors i shorter programming cycles than FPGA-based platforms. As ...

 Keywords: [compilation](#), [data-driven architectures](#), [dataflow](#), [reconfigurable computing](#), [software pipelining](#)

3 [Localizing experience of digital content via structural metadata](#)



Naomi Dushay

July 2002 JCDL '02: Proceedings of the 2nd ACM/IEEE-CS joint conference on Digital libraries

Publisher: ACM

 Full text available: [pdf\(342.47 KB\)](#)

 Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 7, Downloads (12 Months): 81, Citation Count: 0

With the increasing technical sophistication of both information consumers and providers, there increasing demand for more meaningful experiences of digital information. We present a framew

that separates digital object experience, or rendering, ...

Keywords: information behavior, information intermediaries, interoperability, metadata, system architecture

4 [Scientific data repositories: designing for a moving target](#)

Etzard Stolte, Christoph von Praun, Gustavo Alonso, Thomas Gross

June 2003 SIGMOD '03: Proceedings of the 2003 ACM SIGMOD international conference on Management of data

Publisher: ACM

Full text available:  [pdf\(739.27 KB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [index term](#)

Bibliometrics: Downloads (6 Weeks): 25, Downloads (12 Months): 94, Citation Count: 2


Managing scientific data warehouses requires constant adaptations to cope with changes in processing algorithms, computing environments, database schemas, and usage patterns. We have faced this challenge in the RHESSI Experimental Data Center (HEDC), ...

5 [Dynamic access-control policies on XML encrypted data](#)

Luc Bouganim, Francois Dang Ngoc, Philippe Pucheral

January 2008 ACM Transactions on Information and System Security (TISSEC), Volume 10 Issue 1

Publisher: ACM

Full text available:  [pdf\(583.17 KB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 68, Downloads (12 Months): 68, Citation Count: 0

The erosion of trust put in traditional database servers and in Database Service Providers and the growing interest for different forms of selective data dissemination are different factors that lead to move the access-control from servers to clients. ...


Keywords: Access-control, data confidentiality, smartcard, ubiquitous data management

6 [Issues in data stream management](#)

Lukasz Golab, M. Tamer Özsu

June 2003 ACM SIGMOD Record, Volume 32 Issue 2

Publisher: ACM

Full text available:  [pdf\(195.61 KB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#)

Bibliometrics: Downloads (6 Weeks): 33, Downloads (12 Months): 467, Citation Count: 48


Traditional databases store sets of relatively static records with no pre-defined notion of time, and timestamp attributes are explicitly added. While this model adequately represents commercial catalogues or repositories of personal information, ...

7 [A fragment-based approach for efficiently creating dynamic web content](#)

Jim Challenger, Paul Dantzig, Arun Iyengar, Karen Witting

May 2005 ACM Transactions on Internet Technology (TOIT), Volume 5 Issue 2

Publisher: ACM

Full text available:  [pdf\(2.33 MB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [index term review](#)

Bibliometrics: Downloads (6 Weeks): 27, Downloads (12 Months): 160, Citation Count: 2

This article presents a publishing system for efficiently creating dynamic Web content. Complex pages are constructed from simpler fragments. Fragments may recursively embed other fragments. Relationships between Web pages and fragments are represented ...

Keywords: Caching, Web, Web performance, dynamic content, fragments, publishing

8 Fast data stream algorithms using associative memories



Nagender Bandi, Ahmed Metwally, Divyakant Agrawal, Amr El Abbadi

June 2007 SIGMOD '07: Proceedings of the 2007 ACM SIGMOD international conference on Management of data

Publisher: ACM

Full text available: pdf(280.00 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 36, Downloads (12 Months): 345, Citation Count: 0

The primary goal of data stream research is to develop space and time efficient solutions for answering continuous on-line summarization queries. Research efforts over the last decade have resulted in a number of efficient algorithms with varying degrees ...

Keywords: TCAMS, data streams, hardware

9 Client assignment in content dissemination networks for dynamic data

Shetal Shah, Krithi Ramamritham, Chinmay Ravishanker

August 2005 VLDB '05: Proceedings of the 31st international conference on Very large data bases

Publisher: VLDB Endowment

Full text available: pdf(220.97 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 5, Downloads (12 Months): 36, Citation Count: 1

Consider a content distribution network consisting of a set of sources, repositories and clients where the sources and the repositories cooperate with each other for efficient dissemination of dynamic data. In this system, necessary changes are pushed ...

10 Streams, structures, spaces, scenarios, societies (5s): A formal model for digital libraries



Marcos André Gonçalves, Edward A. Fox, Layne T. Watson, Neill A. Kipp

April 2004 ACM Transactions on Information Systems (TOIS), Volume 22 Issue 2

Publisher: ACM

Full text available: pdf(316.85 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [index term review](#)

Bibliometrics: Downloads (6 Weeks): 19, Downloads (12 Months): 456, Citation Count: 13

Digital libraries (DLs) are complex information systems and therefore demand formal foundation development efforts diverge and interoperability suffers. In this article, we propose the fundamental abstractions of Streams, Structures, Spaces, Scenarios, ...

Keywords: applications, definitions, foundations, taxonomy

11 Towards dynamic data grid framework for eResearch

A. B. M. Russel, Asad I. Khan

January 2006 ACSW Frontiers '06: Proceedings of the 2006 Australasian workshops on Grid computing and e-research - Volume 54, Volume 54

Publisher: Australian Computer Society, Inc.

Full text available:  pdf(466.48 KB)

Additional Information: full citation, abstract, references, index terms

Bibliometrics: Downloads (6 Weeks): 7, Downloads (12 Months): 141, Citation Count: 0

The scale at which scientific data is produced will undergo a massive change in the near future. sophisticated scientific discovery laboratories or the installation of sensor networks would produce a large amount of data. Research in protein crystallography ...

Keywords: CIMA, SRB, data grid, eResearch, gridFTP

12 [Supporting dynamic migration in tightly coupled grid applications](#)

Liang Chen, Qian Zhu, Gagan Agrawal

November 2006 SC '06: Proceedings of the 2006 ACM/IEEE conference on Supercomputing

Publisher: ACM

Full text available:  pdf(268.34 KB)  html(2.26 KB) Additional Information: full citation, abstract, references, index terms

Bibliometrics: Downloads (6 Weeks): 5, Downloads (12 Months): 138, Citation Count: 0

In recent years, there has been a growing trend towards supporting more tightly coupled applications on the grid, including scientific workflows, applications that use pipelined or data-flow like processes and distributed streaming applications. As ...

13 [Discretization from data streams: applications to histograms and data mining](#)

João Gama, Carlos Pinto

April 2006 SAC '06: Proceedings of the 2006 ACM symposium on Applied computing

Publisher: ACM

Full text available:  pdf(200.38 KB) Additional Information: full citation, abstract, references, index terms

Bibliometrics: Downloads (6 Weeks): 16, Downloads (12 Months): 131, Citation Count: 0

In this paper we propose a new method to perform incremental discretization. The basic idea is to perform the task in two layers. The first layer receives the sequence of input data and keeps some statistics on the data using many more intervals than ...

14 [Optimized query planning of continuous aggregation queries in dynamic data dissemination networks](#)

Rajeev Gupta, Krithi Ramamritham

May 2007 WWW '07: Proceedings of the 16th international conference on World Wide Web

Publisher: ACM

Full text available:  pdf(331.41 KB) Additional Information: full citation, abstract, references, index terms

Bibliometrics: Downloads (6 Weeks): 7, Downloads (12 Months): 132, Citation Count: 0

Continuous queries are used to monitor changes to time varying data and to provide results useful for online decision making. Typically a user desires to obtain the value of some aggregation function over distributed data items, for example, to know ...

Keywords: content distribution networks, continuous aggregation queries, data coherency, dynamic data, query dissemination cost

15 [High-performance dynamic graphics streaming for scalable adaptive graphics environment](#)

Byungil Jeong, Luc Renambot, Ratko Jagodic, Rajvikram Singh, Julieta Aguilera, Andrew Johnson, J. Leigh

November 2006 SC '06: Proceedings of the 2006 ACM/IEEE conference on Supercomputing


Publisher: ACM

Full text available:  pdf(406.82 KB)  html(2.34 KB) Additional Information: full citation, abstract, references, index to

Bibliometrics: Downloads (6 Weeks): 9, Downloads (12 Months): 70, Citation Count: 0

The Scalable Adaptive Graphics Environment (SAGE) is specialized middleware for enabling data high-definition video and extremely high-resolution graphics to be streamed in real-time from remotely distributed rendering and storage clusters to scalable ...

16 The design of a configurable, extensible and dynamic notification service

 Roberto S. Silva Filho, Cleidson R. B. de Souza, David F. Redmiles

June 2003 DEBS '03: Proceedings of the 2nd international workshop on Distributed event-based systems

Publisher: ACM


Full text available:  pdf(118.25 KB) Additional Information: full citation, abstract, references, cited by, index term

Bibliometrics: Downloads (6 Weeks): 7, Downloads (12 Months): 82, Citation Count: 6

Publish/subscribe infrastructures, specifically notification servers, are used in a large spectrum of distributed applications as their basic communication and integration infrastructure. With their popularization, notification servers are being ...


Keywords: dynamic architecture, event-based middleware, notification servers, pluggable architecture

17 Modeling service-based multimedia content adaptation in pervasive computing

 Girma Berhe, Lionel Brunie, Jean-Marc Pierson

April 2004 CF '04: Proceedings of the 1st conference on Computing frontiers

Publisher: ACM

Full text available:  pdf(691.71 KB) Additional Information: full citation, abstract, references, cited by, index term

Bibliometrics: Downloads (6 Weeks): 11, Downloads (12 Months): 168, Citation Count: 3

Pervasive computing applications allow users to access information from anywhere while travelling and using variety of devices. Heterogeneity and limitation of resources involved in this application demand adaptation of content according to the current ...

Keywords: content adaptation services, media transformation, multimedia content delivery, pervasive computing

18 Content for one: developing a personal content management system

 Doug L. Simpson

November 2005 SIGUCCS '05: Proceedings of the 33rd annual ACM SIGUCCS conference on User services

Publisher: ACM

Full text available:  pdf(73.63 KB) Additional Information: full citation, abstract, references, index terms

Bibliometrics: Downloads (6 Weeks): 7, Downloads (12 Months): 296, Citation Count: 0

You may have browsed or searched one of the large Content Management Systems that store and display useful information; many universities, departments, and library research desks have turned to these to manage both their long-term reference materials ...

Keywords: CMS, calendars, content management systems, documentation, scripting

19 [Aurora: a new model and architecture for data stream management](#)

Daniel J. Abadi, Don Carney, Ugur Çetintemel, Mitch Cherniack, Christian Convey, Sangdon Lee, Mi Stonebraker, Nesime Tatbul, Stan Zdonik

August 2003 The VLDB Journal — The International Journal on Very Large Data Bases. Volume 12, Issue 2

Publisher: Springer-Verlag New York, Inc.

Full text available:  pdf(585.97 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [index term](#)

Bibliometrics: Downloads (6 Weeks): 34, Downloads (12 Months): 197, Citation Count: 57

Abstract. This paper describes the basic processing model and architecture of Aurora, a new system to manage data streams for monitoring applications. Monitoring applications differ substantially from conventional business data processing. The fact that ...

Keywords: Continuous queries, Data stream management, Database triggers, Quality-of-service Real-time systems

20 [Automatic content-based retrieval of broadcast news](#)

M. G. Brown, J. T. Foote, G. J. F. Jones, K. Sparck Jones, S. J. Young

January 1995 MULTIMEDIA '95: Proceedings of the third ACM international conference on Multimedia Publisher: ACM

Full text available:  html(51.60 KB) Additional Information: [full citation](#), [references](#), [cited by](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 3, Downloads (12 Months): 57, Citation Count: 12

Keywords: ATM, atm, browsing, content-based retrieval, information retrieval, multimedia, television news, text subtitles

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